IN THE CLAIMS:

 (Currently Amended) An electrode belt for electrical impedance tomography, the electrode belt comprising:

a belt material:

at least 16 or more electrodes on said belt material, said belt material being elastic at least in some sections, the electrode belt fully surrounding a test subject to be examined over the circumference of the body:

electrode feed lines, said electrode feed lines being integrated within extending along the said belt material; and

a feed line, said electrode feed line being connected to said feed line at least at one or more feed points along said belt material.

2. (Canceled)

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Original) An electrode belt in accordance with claim 1, wherein said electrodes are arranged at equally spaced locations from one another on the belt material.

4. (Canceled)

(Original) An electrode belt in accordance with claim 1, wherein said belt material and said electrode feed lines form plural belt segments with one or more of said electrodes

arranged on individual belt segmen	ts.
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6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Original) An electrode belt in accordance with claim 1, wherein said feed points are arranged symmetrically in relation to one another with the belt material split into two sections of approximately equal size.
12. (Canceled)
13. (Canceled)
14. (Canceled)

15. (Canceled)

- 16. (Currently Amended) An electrode belt in accordance with claim 1, wherein said belt material comprises at least comprising three or more strands tubes, which extend in parallel and are connected section by section via cross struts a tube mounting piece.
- 17. (Currently Amended) An electrode belt in accordance with claim 16, wherein said electrodes are arranged in the area of said cross struts tube mounting piece.
- 18. (Currently Amended) An electrode belt in accordance with claim 16, wherein one of said strands tubes is hollow and accommodates said electrode feed lines.

19. (Canceled)

20. (Currently Amended) An electrode belt in accordance with claim 16, further comprising: shaped elements provided as padding for at least two or more adjacent said electrodes for covering a sternal or spinal depression of a test subject wherein a gel pad located between said outer strands and a middle strand is provided as said shaped element.

21. (Canceled)

22. (Canceled)
23. (Canceled)
24. (Canceled)
25. (New) An electrode belt for electrical impedance tomography, the electrode belt
comprising:
an electrode holder, said electrode holder being composed of a stretch material;
16 or more electrodes, said 16 or more electrodes being located on said electrode
holder;
electrode feed lines extending within said stretch material; and
an external feed line, said external feed line being connected to said electrode feed lines
at one or more connection sites on said electrode holder.
26. (New) An electrode belt for electrical impedance tomography, the electrode belt
comprising:
an electrode holding belt, said electrode holding belt comprising one or more elastic
an electrode notaing deil, said electrode holding dell comprising one of more elastic

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tubes;

holding belt;

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16 or more electrodes, said 16 or more electrodes being positioned on said electrode

electrode feed lines extending within one or more hollow elastic tubes, said electrode feed lines having a length between electrodes that is greater than a length of said elastic tubes in a non stretched state; and

a primary connection line, said primary connection line being joined to said electrode feed lines at one or more primary connection sites on said electrode holding belt.

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- 27. (New) An electrode belt in accordance with claim 26, wherein said belt comprises three or more tubes, which extend in parallel and are connected section by section via a tube mounting piece.
- 28. (New) An electrode belt in accordance with claim 27, further comprising: shaped elements provided as padding for two or more adjacent said electrodes for covering a sternal or spinal depression of a test subject wherein a gel pad located between said outer strands and a middle strand is provided as said shaped element.
- 29. (New) An electrode belt in accordance with claim 27, wherein said electrodes are arranged in the area of said tube mounting piece.
- 30. (New) An electrode belt in accordance with claim 26, wherein said electrode holding belt and said electrode feed lines form plural belt segments with one or more of said electrodes arranged on individual belt segments.

- (New) An electrode belt in accordance with claim 26, wherein said electrodes are arranged at equally spaced locations from one another on said electrode holding belt.
- 32. (New) An electrode belt in accordance with claim 26, further comprising: shaped elements provided as padding for two adjacent said electrodes for covering a sternal or spinal depression of a test subject.
- (New) An electrode belt in accordance with claim 26, wherein silicone is the material used for said electrode holding belt.
- 34. (New) An electrode belt in accordance with claim 26, further comprising a belt closure provided between two adjacent electrodes.
- 35. (New) An electrode belt in accordance with claim 30, further comprising belt closures wherein each of said belt segments is provided with one of said belt closures.
- 36. (New) An electrode belt in accordance with claim 30, wherein said electrodes are arranged at equal distances from each other within said belt segments.
- 37. (New) An electrode belt in accordance with claim 35, wherein said feed points for electrode feed lines are provided on each of said belt closures.

- 38. (New) An electrode belt in accordance with claim 35, wherein said feed points for electrode feed lines are provided on each of said belt closures.
- 39. (New) An electrode belt in accordance with claim 32, wherein said shaped elements are designed as one or more of said electrodes bulging forward.
- 40. (New) An electrode belt in accordance with claim 32, wherein the shaped elements are projections.
- 41. (New) An electrode belt in accordance with claim 32, wherein the shaped elements comprising cavities, which can be filled with a medium and are closed with an elastic membrane.
- (New) An electrode belt in accordance with claim 41, wherein liquids, gels or gases are provided as said medium.
- 43. (New) An electrode belt in accordance with claim 29, wherein said electrode feed lines are disposed or folded in a triangular, meandering or loop-like pattern.
- 44. (New) An electrode belt in accordance with claim 26, wherein said electrode belt has a coding means for providing information relating to the belt.

- 45. (New) An electrode belt in accordance with claim 44, wherein said coding means is designed as a plug type connection on a feed line, a magnetic strip, a bar code strip, an EEPROM, a transponder or a digital/analog electronic unit.
 - 46. (New) An electrode belt in accordance with claim 26, further comprising: an evaluating unit; and

wireless means for wireless communication between said electrode belt and said evaluating unit.

47. (New) An electrode belt in accordance with claim 46, wherein said wireless means is connected in one assembly unit with said electrode belt.